a ſhort time be ſupplied therewith, without being beholding to other nations for it.

5. To theſe particulars add the great abundance of *Iron-ſtone* in Virginia, which hath already been tryed and found very good; the conveniency of Wood and Lime-ſtone being a good inducement to the making of Iron, which might be done at a much leſs rate there than here. Of which there hath been a calculation formerly made, conſidering every mans labour, and what is neceſſary to be diſburſed for every Artiſt and Labourer, as to their tranſportation, diet, and all other materials for the work of Iron. All which is referred to the conſideration of thoſe, who are concerned in a Matter of this importance.

A Way of making Vines grow to advantage, all over the roof of a houſe; communicated by Mr. John Templer.

I Have lately ſeen a pretty and pleaſant culture of Vines at the houſe of a Gentleman, who makes very good White-wine of his own Grapes. He lets Vines aſcend by one ſingle ſtem to the Eaves of his houſe (cutting off all the luxuriant branches by the way,) then gives them liberty to ſpread upon the tiles, all over one ſide the roof of his houſe. Thus he furniſhes his dwelling houſe, and many out-houſes; by which means the vines are no hinderance to his other Wall-fruit, and the rays of the Sun being almoſt direct upon the Vines, he hath riper, ſweeter and greater plenty of grapes, than when their vines are placed as Wall-fruit.

An Obſervation, made by the ſame Mr. Templer *upon the Motion of the Hearts of two* Urchins, *after their being cut out.*

——WHen I had written thus far, I was diverted by a couple of living *Urchins*, which were preſented me by a Shepherd. I ſhall now mention no more than my cutting out their Hearts: whereupon I found the *Syſtole* and *Diaſtole* to continue full two hours, while the hearts lay upon a glaſed earthen white plate in a cold window. The diſtance

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